



Technology
you can
rely on

Central Lubrication Systems Compact Lubrication Systems Chain Lubrication

BEKA-MAX



The Central Lubrication System for Agricultural Machines



The problem is well-known: During harvest time, each minute counts. The operational reliability of an agricultural machine depends on sufficient lubrication.

But manual greasing of 90 or even more lube points costs much time and money. Maintenance works are expensive, but a standstill of a machine costs much more.

A fully automatic BEKA-MAX central lubrication system brings these problems to an end!



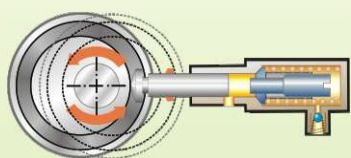
The easy way of maintenance

During the machine is in operation, the BEKA-MAX lubrication system supplies all lube points with the necessary grease. Absolutely reliable, electronically controlled and precisely metered.

Each bearing receives the right quantity of lubricant at the right time, without any standstill times. This improves the operational reliability of the machines and reduces maintenance costs.

Electronic control

The electronic control of the central lubrication is adapted to the operating conditions of the vehicle and activates the pump in the fixed interval.



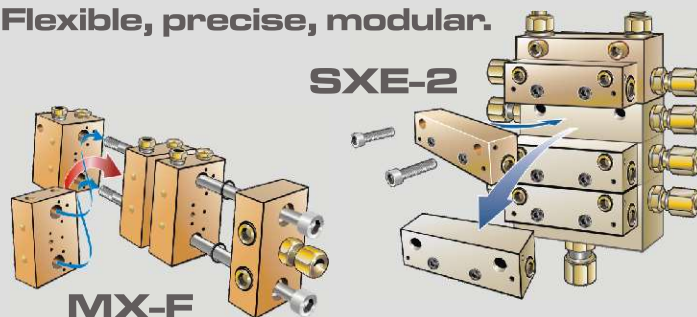
Desmodromic actuation of the pumping elements

The pumping elements are not driven by a simple return spring but have a desmodromic push-pull actuation.

This guarantees a reliable functioning of the pump even by the use of rigid grease (up to NLGI 2) and very low ambient temperatures!

- Heavy duty components
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Pump element with desmodromic drive for highest reliability
- Reservoir capacities: 1.9/2.5/4.0/8.0 kg
- Integrated control unit EP-tronic with
 - 3 operating modes: time, cycles or revolutions
 - electronic monitoring of important functions
 - electronic choice of operating conditions EWP: easy, medium or heavy use
 - integrated data logger with diagnosis module
 - interface to the telemetric system BEKAtraX
- Perfectly matched installation kits in OE quality
- Used as initial equipment by leading manufacturers

Flexible, precise, modular.



The Compact Lubrication System



Some agricultural machines have just a small number of lube points. Beyond that, the retrofitting of a lubrication system is difficult because of restricted space conditions.

Especially for these applications the compact PICO lubrication system was designed.

PICO - big performance with small dimensions.



PICO - the innovative central lubrication system for compact vehicles, machines and trailers

The PICO system is the ideal combination of functionality and flexibility with compact dimensions.

The PICO system is the unique symbiosis of two lubrication systems: Multi line and progressive technology.

The powerful PICO pump supplies up to 8 lube points directly. Without distributor! To feed more lube points, the system can be extended with a progressive distributor. Even a second progressive circle is possible.

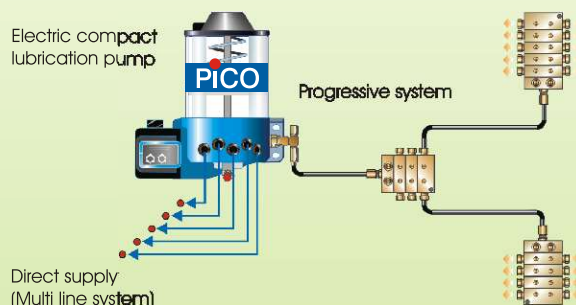
PICO is a modular system which can be used for all agricultural vehicles, machines or trailers.

It is suitable for initial equipment (OE) or retrofitting.

- Very compact design
- Unique combination of two lubrication systems: Progressive and multi line technology
- Suitable for all common lubricants (NLGI 000, 00, 0, 1, 2)
- Reservoir capacity 1.2 kg with level monitoring
- Flexible extension possibilities
- Integrated control unit PICO-tronic with three operating modes: time, cycles or revolutions
 - electronic monitoring
 - electronic choice of operating conditions EWP: easy, medium or heavy use
 - integrated data logger with diagnosis module
 - interface to the telematic system BEKAtraX
- Perfectly matched installation kits for each vehicle or machine in OE quality

BEKA-MAX progressive distributors

- Modular designed distributor system for optimum lubricant feed rates
- Flexible extension possibilities
- Highest precision
- Comprehensive program of distributor types
- Optionally with monitoring and blockade control
- Also suitable in stainless steel



Central Lubrication Systems with Hydraulic Actuation



Many agricultural machines like balers or spreaders have a large number of lube points which need an automatic lubricant supply during operation.

The new hydraulically actuated BEKA-MAX lubrication units care for central lubricant supply using the hydraulic circuit of the machine.

There is no need for an electric connection!



Central lubrication systems with hydraulic drive

BEKA-MAX offers a broad range of different hydraulic pumps, like single or double-acting piston pumps, pumps with hydraulic motor, hydraulic feeders as well as different reservoir and cartridge systems.

All types are suitable for oil and grease up to NLGI 2.

HAMAX 1

- Suitable for lubricants with solids
- Delivery rate can be adjusted as required
- Activation of the delivery by impulse - suitable for applications without steady hydraulic flow
- Only one hydraulic connection no return flow necessary
- Various reservoir sizes (100, 200 and 400 cm³)
- To supply one lube point directly or to feed a progressive system with several lube points



HAMAX 2

- Delivery rate can be adjusted by hydraulic input
- Steady supply with hydraulic motor
- Economic operation by the use of standard cartridges
- Visual indication of the lubricant level
- To supply one lube point directly or to feed a progressive system with several lube points



HP-1

- Delivery rate can be adjusted by hydraulic input
- Steady supply with hydraulic motor
- Large reservoir sizes for long operation (1,9 - 8,0 kG)
- To supply several progressive circuits with different delivery rates
- Quick filling connector



BEKA-MAX

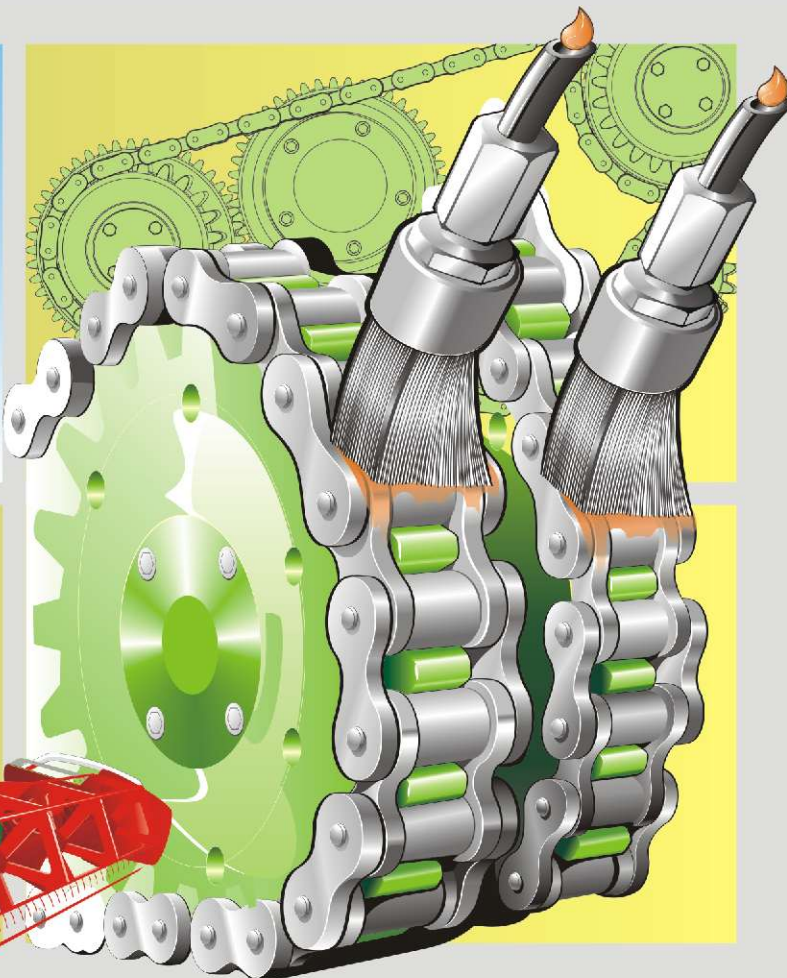


The Effective Chain Lubrication System



Drive chains of agricultural machines like combined harvesters, loading wagons, compost spreaders, round balers or square balers are subject to a very high wear and tear. They need intensive care to reduce replacement rates.

The BEKA-MAX chain lubrication system considerably improves the lifetime of drive chains and even protects the environment.



Lubrication by chance

Conventional chain lubrication systems have one big disadvantage: In most cases, the lubricant is supplied onto the chains while they standing still. Apart from that, the metering of the lubricant is not very precise in many cases. Some parts of the chains receive far too much lubricant, while others stay dry.

The steady partial overlubrication of the chains leads to a dripping off of the lubricant into the soil and thus to an avoidable environmental pollution.

BEKA-MAX: The better solution

The BEKA-MAX operating principle is different. The chains are supplied steadily with very small oil quantities. Oil brushes apply the lubricant onto the chains and nothing drips off.

The BEKA-MAX system provides up to 12 oil brushes with one pump. The feed rate of the different lub points can be adjusted individually. For precise and efficient lubrication.

The BEKA-MAX chain lubrication system has not only economic, but also ecologic advantages: It increases the lifetime of drive chains decisively and protects the environment - a real good combination.

The advantages at one glance:

- Compact design
- Mechanical or electrical drive
- Individually adjustable lubrication circles
- Increases the lifetime of drive chains decisively
- Low lubricant consumption
- Only the running chains are lubricated
- Retrofitting kits in OE-quality

Technical data of the A-series pumps

Outlets:	12
Reservoir:	Plastic, capacity 2.0 / 4.2 l
Delivery rate:	0,06 cm ³ per stroke and outlet
Variation:	In pairs
Lubricant:	Oil, 25 - 1500 cSt
Operating pressure:	10 bar
Rotation:	as required

Mechanical drive

Speed:	100 - 600 rpm
Speed reduction:	25:1, 50:1

Electric drive

Voltage:	12 or 24 V DC
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BAIER+KÖPPEL GMBH+CO
PRÄZISIONSAPPARATEFABRIK

BEETHOVENSTRASSE 14
91257 PEGNITZ/BAVARIA

PO box 13 20
91253 PEGNITZ/BAVARIA

GERMANY

fon +49 9241 729-0

fax +49 9241 729-50

e-mail beka@beka-lube.de

www.beka-lube.de



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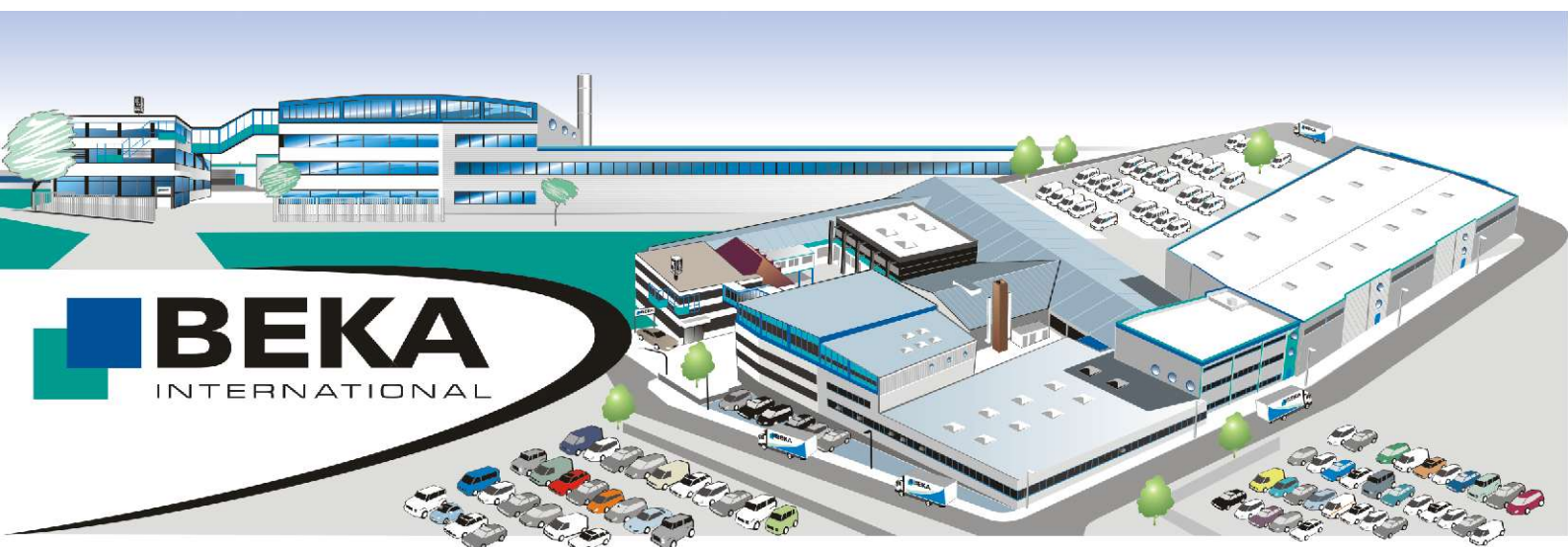
Lubrication Systeme for Wood Yards
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Control and Monitoring Electronics

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Subsidiaries

AUSTRIA

BEKA-Lube GmbH
Carola-Blome-Str. 7
5020 Salzburg

fon 0043 / 662 / 43 84 40
fax 0043 / 662 / 43 84 403
e-mail office@beka-lube.at

BELGIUM

BEKA LUBE N.V.S.A.
Demerstraat 32
BE 3200 Aarschot

fon 0032 / 16 / 64 09 26
fax 0032 / 16 / 64 05 48e-
mail bekalube@skynet.be

CANADA

BEKA-LUBE Products Inc.
2830 Argentia Road, Unit 9
Mississauga ON L5N 8G4

fon 001 / 905 / 821 / 1050
fax 001 / 905 / 858 / 0597
e-mail info@beka-lube.com

CHINA

EAST TSANHAIR COMPANY LTD.
7A Building, Medicine Valley No.1,
No.9 Tianfu Street, Bio-Medicine Park,
Zhongguancun Science Park,
Daxing District, Beijing, China 102600

fon 0086 / 10 / 83 681 526
fax 0086 / 10 / 83 681 520
e-mail beka-china@vip.163.com

FRANCE

BEKALUBE FRANCE
4, bis Rue de l'Artisanat
89100 Paron

fon 0033 / 386 / 83 39 06
fax 0033 / 386 / 83 39 06
e-mail contacts@bekalube.fr

ITALY

BEKALUBE s.r.l.
Via Rossi 152
20043 Arcore

fon 0039 / 039 / 618 00 88
fax 0039 / 039 / 61 75 23
e-mail bekalube@bekalube.it

KOREA

BEKA AHWON
326-1 Danggung Dong
Gunpo Si Kyungki Do Korea

fon 0082 / 31 / 451 / 0628
fax 0082 / 31 / 451 / 0974
e-mail jhleeahwon@yahoo.co.kr

NETHERLANDS

BEKA NEDERLAND B.V.
Wagenmakerij 11
4762 AV Zevenbergen

fon 0031 / 168 / 37 15 38
fax 0031 / 168 / 33 83 29
e-mail info@beka.nl

SPAIN

BEKA-LUBE IBERICA S.L.
Avda. de Suiza, 3 P.A.L. Coslada
28820 Coslada (Madrid)

fon 0034 / 91 / 670 7800
fax 0034 / 91 / 670 78413
e-mail beka@beka-lube.es

TURKEY

BEKAMAKS MAKINA SANAYI
ve TICARET LTD. STI.
Kucukyali Ticaret Merkezi
B Blok No. 7 Gime Mah.
34852 Maltepe / Istanbul

fon 0090 / 216 / 367 34 00
fax 0090 / 216 / 367 33 85
e-mail info@bekamaks.com

USA

BEKA-MAX of America
2600 North America Drive Suite 8
P.O. Box 615 West Seneca, NY 14224

fon 001 / 905 / 821 / 1050
fax 001 / 905 / 858 / 05 97
e-mail info@beka-lube.com

Agencies

Argentina

Australia

Belarus

Bosnia

Brazil

Croatia

Czechia

Denmark

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Finland

Great Britain

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and others

EURO BAU-MASCHINE GRUPPE SK

Autorizovaný predajca centrálnych mazacích systémov
BEKA

EURO BAU-MASCHINE GRUPPE SK, s.r.o.
Priemyselná 14
971 01 Prievidza
Slovenská republika

http://www.eurobau-sk.sk

BEKA-MAX

FLUIDLUB

BEKA WIND

BEKA

BEKA
LUBRICATION

PETER KOTRÍK

Sales manager

Priemyselná 14
971 01 Prievidza
Slovenská republika

Telefón: +421 46 548 80 09
Mobil: +421 949 689 835
E-mail: eurobau@eurobau-sk.sk

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